

# Rajeev Ranjan

Senior Backend Developer | DevOps Specialist | AI & Data Science Enthusiast

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## Professional Summary

Experienced Senior Backend Developer with 5 years of expertise in building SaaS products, ensuring system reliability through DevOps and SRE practices, and developing AI solutions as both a Data Scientist and AI Engineer.

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## Technical Skills

- **Programming & Frameworks:** Python, Django, Django REST Framework, FastAPI, Node.js, Celery, Bash/Shell Scripting
  - **Databases & Storage:** PostgreSQL, MySQL, MongoDB, Redis, Pinecone (Vector DB), Neo4j (Graph DB), SQLite
  - **AI & Data Science:** Large Language Models (LLMs), Natural Language Processing (NLP), Machine Learning, Deep Learning, Data Analysis, Feature Engineering, Predictive Modeling, Time Series Forecasting, Supervised & Unsupervised Learning, Model Evaluation & Hyperparameter Tuning
  - **Libraries & Tools:** Scikit-learn, TensorFlow, PyTorch, Hugging Face Transformers, LangChain, LangGraph, Pandas, NumPy, XGBoost, LightGBM, OpenCV, Matplotlib, Seaborn, MLflow, Streamlit
  - **Cloud & Infrastructure:** AWS (EC2, S3, Lambda), Google Cloud Platform (Vertex AI, BigQuery, Cloud Functions)
  - **CI/CD & DevOps:** BuildPiper, GitHub Actions, Terraform, Helm
  - **Containerization & Orchestration:** Docker, Kubernetes, Docker Compose
  - **Monitoring & Observability:** Prometheus, Grafana, ELK Stack (Elasticsearch, Logstash, Kibana), OpenTelemetry, Sentry
  - **Big Data & ETL Pipelines:** Apache Spark, Apache Kafka, Apache Airflow, PySpark
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## Professional Experience

### Buildpiper - By Opstree

August 2020 - Present | Noida, India

#### Senior Backend Developer (March 2022 - Present)

- Led backend development to enhance **BuildPiper**, a CI/CD platform, focusing on automation, deployment efficiency, and scalability.

- Designed and implemented **CI/CD pipeline automation**, including **canary & rollback deployment strategies** to provide customers with reliable canary deployments.
- Developed **canary analysis feature**, enabling in-depth analysis of canary deployments and providing a decision dashboard for rollback or phased progression.
- Developed high-performance **APIs & microservices** in **Python, Django, and Celery** to improve BuildPiper's core functionalities.
- Implemented **log analyzer using Gemini model**, improving CI/CD log troubleshooting and reducing debugging time.
- Spearheaded **build velocity & deploy velocity insights**, enhancing observability and performance tracking.
- Developed **database onboarding and upgrades via CI/CD**, ensuring seamless DB lifecycle management.
- Designed **database metric monitoring & templates** for enhanced DB performance tracking.
- Led the **BP-on-Kubernetes POC**, working with Kubernetes engineers for BP deployment.
- Improved **bpctl CLI**, a tool equivalent to `kubectl` for BuildPiper configuration, by adding state management, auto-detection, and recursive apply.
- **Mentored junior developers** and contributed to **architectural decisions** for system scalability.
- Integrated **Sentry for centralized error tracking** across BuildPiper components.
- Actively collaborated with **cross-functional teams** (DevOps, QA, Product) to drive feature enhancements.

#### **DevOps Specialist - SRE (September 2021 - March 2022)**

- Enhanced **pipeline scheduling** for environment up/down scenarios, reducing downtime.
- Developed **JIRA automation** to trigger pipelines based on transition events.
- Built **parallel build restriction mechanisms**, optimizing resource utilization.
- Led **Proof of Concept (POC) for SSE in Buildpiper**, improving real-time updates.

#### **Evelyn Learning - Computer Science SME**

*October 2020 - September 2021 | Noida, India*

- Developed problem-solving solutions for **Data Structures & Algorithms (DSA)** in Python & C++.

#### **STARLINK - Research & Development Software Engineer**

*March 2020 - July 2020 | Delhi, India*

- Implemented **encrypted communication for IoT devices** using C/C++.

## **Adaptive Security - Linux System Administrator**

*December 2018 - November 2019 | Delhi, India*

- Set up and automated **Linux infrastructure deployment** on VPS & cloud platforms.
  - Created **Bash & Python scripts** for system administration automation.
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## **Education**

**JIET, Jodhpur** – B.Tech in Computer Science (2013 - 2017)

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## **Certifications & Achievements**

- **Associate AI Engineer For Developers - Datacamp**
- **Advanced Certification in Applied Data Science, Machine Learning, and IoT - E&ICT Academy IIT Guwahati (In Progress)**